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fectious Diseases: Causation and Immunity," giving the facts that have been established in this field up to date; and "A Further Study of Involuntary Movements," by Professor Joseph Jastrow, supplementing a previous paper on this subject, will appear.

— Charles Scribner's Sons issued on Aug. 8 Stevenson's long-expected book on Samoa, entitled "A Footnote to History," being a narrative of the varied history of that island for the past eight years.

— J. B. Lippincott Company's August Bulletin of New Publications contains, among other announcements, the following: "Photography: Its History, Processes, Apparatus, and Materials. Comprising Working Details of all the more Important Methods," by A. Brothers. In the preparation of this work, the author's aim has been to produce a Handbook for the Use of Students of Photography, which should give the results of practical experience, and include — as far as possible within a moderate compass — information gathered from many sources, and not readily accessible. The newer methods have been dealt with in sufficient detail, and special attention given to the processes in use prior to the introduction of the gelatino-bromide method. Some of these processes are in danger of being neglected through the facilities which the newer methods have introduced. But, as Professor Brothers demonstrates, the new processes do not give results equal to the old, and are totally unsuitable for some purposes — such as making negatives for photo-lithography, and in various other ways. Where practicable, the plates illustrate the processes described,

thus making the work distinctly more serviceable to students. "In Starry Realms: a New Work on Astronomy," by Robert S. Ball; "Regional Anatomy in its Relation to Medicine and Surgery," by George McClellan, M.D.; "Steam Boilers: their Defects, Management, and Construction," by R. D. Monro. Of books in press, "A Short Course on Zoology Designed for High Schools and Academies," by C. De Montmahon and H. Beauregard; translated and adapted for American schools by Wm. H. Greene, M.D. "Recent Rambles, or in Touch with Nature," by Charles C. Abbott, M.D.

— Ginn & Co. have nearly ready "German Orthography and Phonology," by George Hempl, Assistant Professor of English in Michigan University. They will publish in the fall "Fourier's Series, and Spherical, Cylindrical, and Ellipsoidal Harmonics," with applications to problems in mathematical physics, by W. E. Byerly.

— *Outing* for August opens with the first instalment of Wheelman Frank G. Lenz's description of a cycling tour around the world. The rider is at present somewhere on the broad western plains, en route for the Pacific coast, and during his two-year jaunt he will traverse Japan, China, India, Persia, Turkey, Austria, Germany, Holland, France, England, Scotland, and Ireland. Mr. Lenz will communicate his experiences to *Outing* from convenient points of his journey, illustrating his articles by photographs taken by himself. The opening chapter describes the trip

Publications Received at Editor's Office.

- APGAR, AUSTIN C. Trees of the Northern United States. New York, American Book Co. 12°. 224 p. \$1.
 ARKANSAS GEOL. SURVEY. Annual Report for 1890. Little Rock, Press Print. 8°. 474 p.
 BEAN, TARLETON H. Notes on Fishes Collected in Mexico. Washington, Government. 8°. Paper. Ill.
 BENEDICT, JAMES E. Crustoid Crabs of the Genera Telmessus and Erimacrus. Washington, Government. 8°. Paper. Ill.
 BOLLES, T. DIX. Chinese Relics in Alaska. Washington, Government. 8°. Paper. Ill.
 EIGENMANN, CARL H. The Fishes of San Diego. Washington, Government. 8°. Paper.
 HOFFMAN, B. B. The Sloyd System of Wood Working. New York, American Book Co. 12°. 242 p. \$1.
 JEFFERSON, SAMUEL. Columbus. An Epic Poem. Chicago, S. C. Griggs & Co. 12°. 239 p.
 LINTON, EDWIN. Notes on Avian Entozoa. Washington, Government. 8°. Paper. Ill.
 MASON, ORIS T. The Ulu, or Woman's Knife of the Eskimo. Washington, Government. 8°. Paper. Ill.
 RATHBURN, MARY J. Catalogue of Crabs of the Family Pericruidæ. Washington, Government. 8°. Paper.
 RICKOFF, REBECCA D. A Supplementary First Reader. New York, American Book Co. 12°. 122 p. 25 cts.
 SHUFFELDT, R. W. The Evolution of House Building among the Navajo Indians. Washington, Government. 8°. Paper. Ill.
 SHUFFELDT, R. W. A Maid of Wolpai. Washington, Government. 8°. Paper.
 SMITH, JOHN B. Revision of the Genus Cuculla, etc. Washington, Government. 8°. Paper. 86 p.
 STYNEGER, LEONHARD. Preliminary Description of a new Genus and Species of Blind Cave Salamander. Washington, Government. 8°. Paper. Ill.
 STYNEGER, LEONHARD. Notes on a Collection of Birds made in Japan. Washington, Government. 8°. Paper.
 WILLIAMSON, MRS. M. BURTON. An Annotated List of the Shells of San Pedro Bay. Washington, Government. 8°. Paper. Ill.

Reading Matter Notices.

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TO

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—The experiment station of Cornell University conducted an experiment in 1890, showing very decided beneficial results from removing the tassels from a part of the growing corn; their calculations showing about fifty per cent gain from the rows from which the tassels were removed over the alternate rows on which the tassels were allowed to remain. This remarkable showing caused a similar experiment to be undertaken at the Ohio station in 1891. Thirty-two rows of corn, running over quite uniform land, were selected upon which to make this trial. On Aug. 1, the tassels were pulled from each alternate row. At cutting-time four rows, having the tassels removed, were cut and shocked together, then four rows from which the tassels were not removed were shocked together. Continuing this throughout the thirty-two rows, they had when done four shock rows of each. When husked these shock rows were weighed separately. They also

separated the merchantable from the unmerchantable corn, and calculated the yield of each separately per acre. They find that the unmerchantable corn from the four plots from which the tassels were removed averages 26 per cent, while the averages from the other four rows is 21 per cent unmerchantable. The calculations also show that the average yield per acre is about one bushel less than where the corn was left undisturbed. It is probable that the tassels were not removed in this experiment early enough. To insure or even make possible beneficial results from removing tassels, the pulling should be done as soon as they appear, and before the stalk has weakened itself in an attempt to perfect the tassel. The theory upon which this experiment is based is that the strength that would otherwise go to the maturing of the tassel and production of pollen is diverted to the use of grains, and from their more complete development more corn is produced. The fodder in this experiment was not weighed, because back-water from a high river damaged it to such an extent as to make the weight unreliable.

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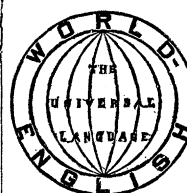
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Titles of Some Articles Published in *Science* since
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Aboriginal North American Tea.
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Architectural Exhibition in Brooklyn.
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Will, a Recent Analysis of.
Wind-Storms and Trees.
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Some of the Contributors to *Science* Since Jan. 1, 1892.

Aaron, Eugene M., Philadelphia, Pa.
Allen, Harrison, Philadelphia, Pa.
Baldwin, J. Mark, University of Toronto, Canada.
Barnes, Charles Reid, Madison, Wis.

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